Computing Sciences Area

2022 POSTDOC SYMPOSIUM

BERKELEY LAB

Tuesday, February 8, 2022

Hannah Klion – 10:00am
Particle-in-Cell Simulations of Relativistic Magnetic Reconnection

Osman Asif Malik – 10:30am
Sampling-Based Methods for Tensor Ring Decomposition

Prabhat Kumar – 11:00am
Exascale Modeling of Electromagnetics with Applications to Microelectronics and Particle Accelerators

Vincent Dumont – 11:30am
HYPPO: A Surrogate-based, UQ-informed, and multi-level parallelism HPO tool

Niladri Gomes – 1:00pm
Adaptive Variational Approach for Quantum Simulations

Hengrui Luo – 1:30pm
GPTune: Advanced Problems in Surrogate-based Black-box Optimization with Applications

Lipi Gupta – 2:00pm
ALS to NERSC Data Pipeline for Rapid Tomography

Wednesday, February 9, 2022

Ankur Kumar Gupta – 10:00am
3D CNNs Utilizing Molecular Topological Features for Accurate Atomization Energy Predictions

Daan Camps – 10:30am
FunFact: a Tensor Algebra Language with Applications in Deep Learning

Yize Chen – 11:00am
Enabling Secure Learning for Clean Energy Systems

Hengjie Wang – 11:30am
Mosaic Flow: A Transferable Deep Learning Framework for Solving PDEs on Unseen Domains

Thursday, February 10, 2022

Huo Chen – 10:00am
Optomechanical Quantum Transduction Control Protocol

Jean Luca Bez – 10:30am
Towards Understanding I/O Behavior with Interactive Exploration

Patricia Gonzalez – 11:00am
Temporal and SFQ Pulse Streams Encoding for Area-Efficient Superconducting Accelerators

Soham Ghosh – 11:30am
Performance portability of linear algebra routines in GW calculations

https://lbnl.zoom.us/j/205038583